ABSTRACT

PT. Pakarti Riken Indonesia is an international manufacture industry that produces automotive spare part and pipe fitting. Process of producing start with melting iron as base material, moulding, pouring, fettling, galvanizing and finishing. On 2008 PT. Pakarti Riken Indonesia gets burned twice. Installations system of fire extinguisher in PT. Pakarti Riken Indonesia only provide portable fire extinguisher and for means of evacuation, it's only provide any empty lands as point of evacuation when fire occur.

Design of evacuations means started with get the layouts data of PT. Pakarti Riken Indonesia then calculating sum of person that the building could hold and also using NFPA 101 year 2000 and SNI 03 – 1746 – 2000 as consideration to determine width and total amount of exit doors and also to determine total amount and location of the assembly area. Portable fire extinguisher evaluations, started with evaluate the existing location and stock, then compare it to the regulation (PERMENAKERTRANS RI No. 04/MEN/1980 and NFPA 10 year 1998). If there is any unsuitability so it has to be redesigned include of locations and type of portable fire extinguisher that needed as regulations.

The result of evacuations means design clarify that total of exit PT. Pakarti Riken Indonesia are 37 exit with width 1 unit (525 mm), 5 exit with width 2 units (1050 mm), 5 exit with width 3 units (1500 mm), 9 exit with width 4 units (1950 mm). Total of assembly area result of design are 3 areas. Total amount of portable fire extinguisher that needed PT. Pakarti Riken Indonesia consider need in to PERMENAKERTRANS RI No. 04/MEN/1980 are 298 units, kinds of portable fire extinguisher is powder extinguisher (PG) and consider to NFPA 10 year 1998, total of portable fire extinguisher are 175 units, kinds of portable fire extinguisher is dry chemical for hall that has type of fire A and or B and or C, and type of portable fire extinguisher dry powder for hall that has type of fire D.

Keywords: evacuations means, exit, assembly area, portable fire extinguisher